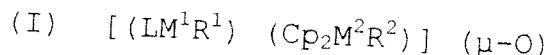


ABSTRACT

The novel binuclear, oxygen-bridged, bimetallic complexes of the general formula (I):



are suitable as polymerization catalysts for olefin polymerization. ($M^1 = Al, Ge, Zr$, or Ti ; $M^2 = Zr, Ti$, or Hf ; Cp = cyclopentadienyl; $R^1, R^2 = H$, methyl, ethyl, isopropyl, t-butyl, halogen, phenyl, alkylphenyl, $SiMe_3$; L = a bidentate, doubly heteroatom-coordinated organic chemical ligand, which together with the metal M^1 forms a 5 or 6-membered ring.) They display very good catalytic activities, good operating lives, and require little cocatalyst.

(Figure 3)